## IN THE CLAIMS:

(Currently amended) A method for providing metadata, comprising:
 creating an object descriptor class for an object;
 providing an object descriptor interface using the object descriptor class;
 creating an object descriptor class for an object using the object descriptor interface;

using methods defined by the object descriptor interface to identify a property of the object;

providing a property descriptor class for the property of the object;

providing a property descriptor interface using the property descriptor class;

creating a property descriptor class using the property descriptor interface; and using methods defined by the property descriptor interface to obtain metadata associated with the identified property.

- (Original) The method of claim 1, wherein the object descriptor interface extends a property set descriptor interface.
- (Original) The method of claim 2, wherein the property set descriptor interface contains the property descriptor interface.
- 4. (Original) The method of claim 1, wherein the property descriptor interface defines methods that describe a single property.
- 5. (Original) The method of claim 1, wherein the object descriptor interface collects multiple associated property descriptions into a single object description.
- 6. (Original) The method of claim 1, wherein the object is a database.

- 7. (Original) The method of claim 6, wherein the step of using methods defined by the object descriptor interface to identify a property of the object comprises using application program interfaces that talk to the database.
- 8. (Original) The method of claim 1, wherein the object is a Java bean.
- 9. (Original) The method of claim 8, wherein the step of using methods defined by the object descriptor interface to identify a property of the object comprises using a built-in object introspection mechanism.
- 10. (Currently amended) A method for providing metadata about a set of properties, comprising:

creating a first object describing metadata for a plurality of data sources, wherein the first object stores maintains a related set of properties; and

creating a set of second objects describing metadata for respective properties of the data sources;

wherein dynamically defined metadata concerning a respective property is obtained by invoking a method in the first object to identify the respective property, and then invoking a method in a respective one of the second objects to dynamically obtain the metadata concerning the respective property.

- 11. (Original) The method of claim 10, wherein the first object and the set of second objects comprise interface objects.
- 12. (Original) The method of claim 10, wherein each object in the set of second objects defines methods that describe a single property of a data source.
- 13. (Original) The method of claim 10, wherein the first object collects multiple associated property descriptions into a single description.

14. (Currently amended) An apparatus for providing metadata, comprising:

### first creation means for creating an object descriptor class for an object;

#### first implementation means for providing an object descriptor interface using the object descriptor class;

first creation means for creating an object descriptor class for an object using the object descriptor interface;

first exposing means for using methods defined by the object descriptor interface to identify a property of the object;

second creation means for creating a property descriptor-class for the property of the object;

second implementation means for providing a property descriptor interface using the property descriptor class;

second creation means for creating a property descriptor class using the property descriptor interface; and

second exposing means for using methods defined by the property descriptor interface to obtain metadata associated with the <u>identified</u> property.

- 15. (Original) The apparatus of claim 14, wherein the object descriptor interface extends a property set descriptor interface.
- 16. (Original) The apparatus of claim 15, wherein the property set descriptor interface contains the property descriptor interface.
- 17. (Original) The apparatus of claim 14, wherein the property descriptor interface defines methods that describe a single property.
- 18. (Original) The apparatus of claim 14, wherein the object descriptor collects multiple associated property descriptions into a single object description.
- 19. (Original) The apparatus of claim 14, wherein the object is a database.

- 20. (Original) The apparatus of claim 19, wherein the first exposing means comprises means for using application program interfaces that talk to the database.
- 21. (Original) The apparatus of claim 14, wherein the object is a Java bean.
- 22. (Original) The apparatus of claim 21, wherein the first exposing means comprises means for using a built-in object introspection mechanism.
- 23. (Currently amended) An interface apparatus for defining metadata about a related set of properties, comprising:
- a first object describing metadata for a plurality of data sources, wherein the first object stores maintains a related set of properties for the plurality of data sources; and
- a set of second objects describing metadata for respective properties of the data sources that are maintained by the first object.
- 24. (Currently amended) The interface apparatus of claim 23, wherein the first object and the set of second objects comprise interface objects.
- 25. (Currently amended) The interface apparatus of claim 23, wherein each object in the set of second objects defines methods that describe a single property of a data source.
- 26. (Currently amended) The interface apparatus of claim 23, wherein the first object collects multiple associated property descriptions into a single description.
- 27. (Currently amended) A computer program product, in a computer readable medium, for defining metadata, comprising:

instructions for orenting an object descriptor class for an object;
instructions for providing an object descriptor interface using the object descriptor class;

instructions for creating an object descriptor class for an object using the object descriptor interface:

instructions for using methods defined by the object descriptor interface to identify a property of the object;

instructions for ereating an property descriptor class for the property of the object; instructions for providing a property descriptor interface using the property descriptor class;

instructions for creating a property descriptor class using the property descriptor interface; and

instructions for using methods defined by the property descriptor interface to obtain metadata associated with the <u>identified</u> property.

- 28. (New) The method of Claim 1, wherein the metadata describes a data type of the property.
- 29. (New) The method of Claim 1, wherein the metadata describes editing capabilities of the property.